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Application No. 10/783,900

Attorney Docket No. 039592-002000

Page 2

Amendments to the Claims:

This listing of Claims will replace all prior versions, and listings, of claims in the application where added material is shown in underlined type, deleted material is shown in ~~strikeout type~~:

Listing of Claims:

1. - 18 (Cancelled)

19. The method of capturing and destroying organic hazardous agents (bio-agents) comprising;

a) passing air through at least one filter containing a bed of material for capturing bio-agents;

b) circulating the filtered air to a building having a plurality of enclosed spaces during an in-service operation;

e) detecting a release of bio-agents with a biosensor located within the enclosed spaces;

d) adsorbing on a filter bed bio-agents present in the air prior to the air being passed to the enclosed space;

e) sealing off the circulation of air from the enclosed space in which a bio-agent has been detected from the other enclosed spaces after a sufficient evacuation time has elapsed;

f) passing steam and syn-gas through the at least one filter if the biosensor detects a release of bio-agents; and

g) circulating the steam and syn-gas mixture from the at least one filter to a steam/carbon dioxide reformer to destroy any of the bio-agents that have been adsorbed on a filter bed after a release of a bio-agent has been detected during a reactivation operation.

20. The method of claim 19, wherein the material for capturing bio-agents is granular activated carbon (GAC).

10772708v1

Application No. 10/783,900
Attorney Docket No. 039592-002000
Page 3

21. The method of claim 19, further comprising passing the air through a second filter containing a second bed for use while the bed of a first filter is undergoing the reactivation operation.
22. The method of claim 19, further comprising passing the air through a second filter containing a second bed placed in series with a first filter containing a first bed to assure capture of substantially all of the bio-agents.
23. The method of claim 19, further comprising passing the air through a third filter containing a third bed for use while the first bed is undergoing steam/carbon dioxide re forming.
24. The method of claim 19, wherein the steam and syn-gas mixture is superheated.
25. The method of claim 19, wherein said steam/carbon dioxide reforming takes place at temperatures of at least 1800°F.
26. The method of claim 20, wherein the biosensor warns occupants of the building of any release of bio-agents.
27. The method of claim 26, wherein said filter contains a sufficient amount of GAC to prevent a breakthrough of a bio-agent spike from the GAC bed into any enclosed space during the time required by the biosensor to detect and confirm a release of bio-agents and to warn the building occupants.
28. The method of claim 27, wherein said filter contains about 100 tons of GAC.

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